Hyundai Elantra 2011-up CN-M5 Installation manual

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- Follow installation manual instructions carefully. Installer must careful to not cause interference between Navigator System cabling and active / passive car safety device (Ex: Air bags, seat belts, indica tors, etc…)

- Before any attempt of component removal, the installer must disconnect the vehicle battery and isolate the ends of the cable.

- Do not attempt this installation operation if there are missing components. Please check the bill of materials carefully to ensure the kit is complete.

- Installation requires careful attention. If you have concerns about your abilities to perform delicate operations, then do not begin the installation.

- The car must be secured to not move during installation. Parking brake must be engaged at all times.

- Operation should be made in a clean, safe and well ventilated environment without trip hazards and slippery floors

- Do not install by yourself if you do not have qualifications and/or tools to perform the retrofit. You may damage the car's components and/or the Navigator if not professionally installed.

- Poor installation can result in poor performance, personal injuries and will immediately void the factory warranty.

- Do not install the Navigator in a position that blocks the driver's view or hinders safe vehicle operation.

Hyundai Elantra 2011-up CN-M5
Installation manual

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Caution

Installation Time is around **2 hours** with additional time required for options installation

Do NOT RUSH and if issues occur contact technical support

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Table of contents:

1. Tools Required – Page 5
2. Bill of Materials – Page 6
3. Cables interconnection identification – Page 9
4. Touchscreen Connections identification – Page 15
5. TRIP Module connection identification – Page 19
6. Vehicle Preparation – Page 23
7. Radio Preparation – Page 31
8. Touchscreen Fascia Installation – Page 42
9. Fascia Trim Preparation – Page 46
10. Lower Console Preparation – Page 50
11. Electrical Connections – Page 55
12. Installation in Vehicle – Page 62
13. Appendix 1 – TRIP Module Dip Switches Page 73
14. Appendix 2 – Backup Camera Installation Page 75
15. Appendix 3 – Parking Assist Page 78
16. Appendix 4 – RDS Traffic Tuner Page 81
17. Tips & Tricks Page 83

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Tools required for successful install -#1 = Patience!!!

Shop Towels & Alcohol
Double Sided tape industrial (RED)
Lighter or heat gun(for heat shrink)

Gloves
Electrical tape
Philips #2 screwdriver magnetic

Hacksaw

Wide flat blade screwdriver
Masking Tape
Side cutters

Knife
Jeweler screw driver set
10mm socket

Ratchet

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Bill of materials

Aux cable

Main I/O 1 Cable

TRIP Serial cable

Keypad Cable (Pre-installed)

Audio Patch cable

Main I/O 2 Cable

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Installation manual

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Bill of materials

Radio face plate

LCD Screen
Brackets & screws
(Pre-installed)

Radio securing Brackets

XM radio Antenna adapter

Flat ribbon rubber block

Mini Speaker

GPS antenna

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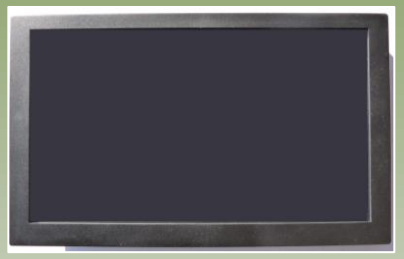
Bill of materials

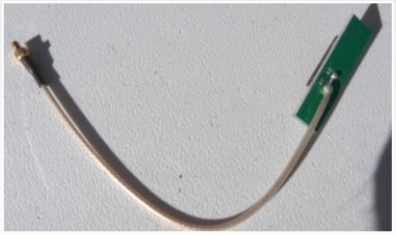


Main Touchscreen (Pre-Installed)

Fascia Molding

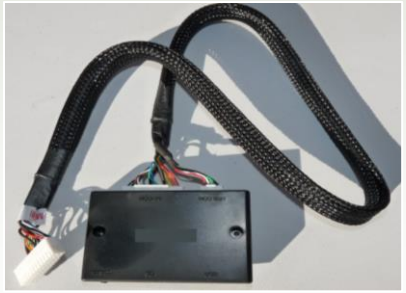
TRIP Module

SD Card adapter



Bluetooth antenna (pre-installed for MY 2011-Mid 2013 only)

External USB & SD Card Box (Map SD Card inserted)



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Section 3
System Cable Connections and Identification

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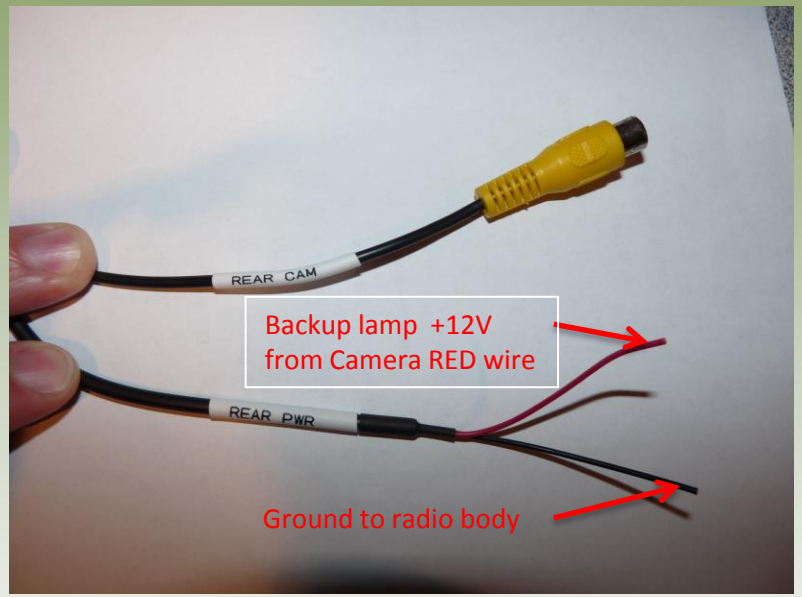
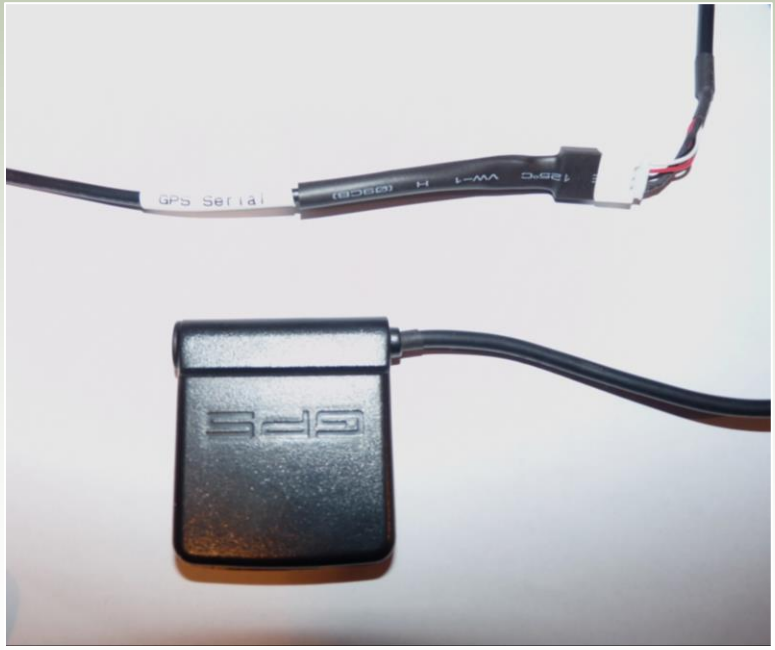


Rear Backup Camera Cable
- Main I/O 1



GPS Antenna Connection
– Main I/O 1

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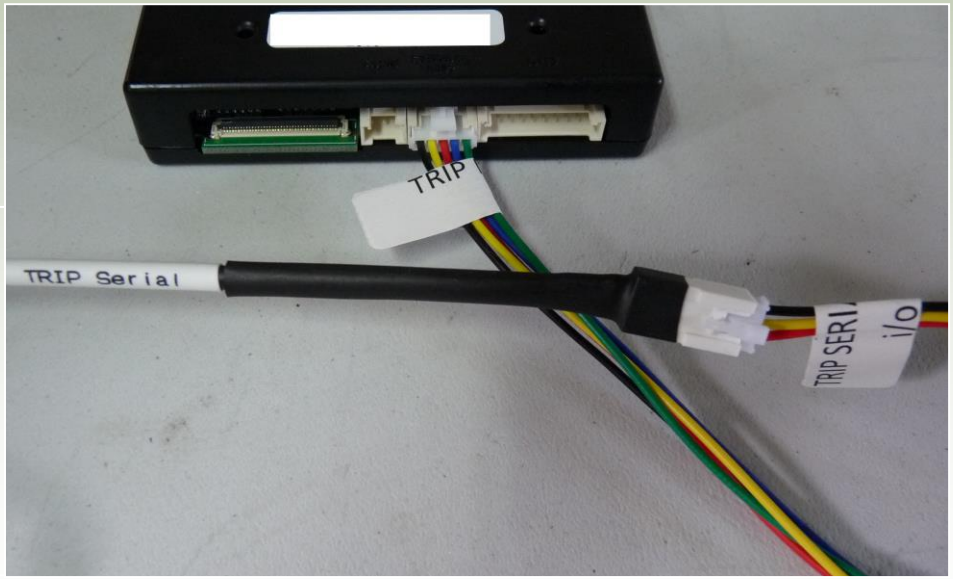
External Speaker
Connection – Main I/O 1



TRIP Serial Cable connection:

- 5 Pin **to** TRIP Module
- 3 Pin(Yellow, Red and Black) **to** MAIN I/O 1 Trip Serial cable
- 2 Pin(Blue and Green) **to** Audio Patch Cord

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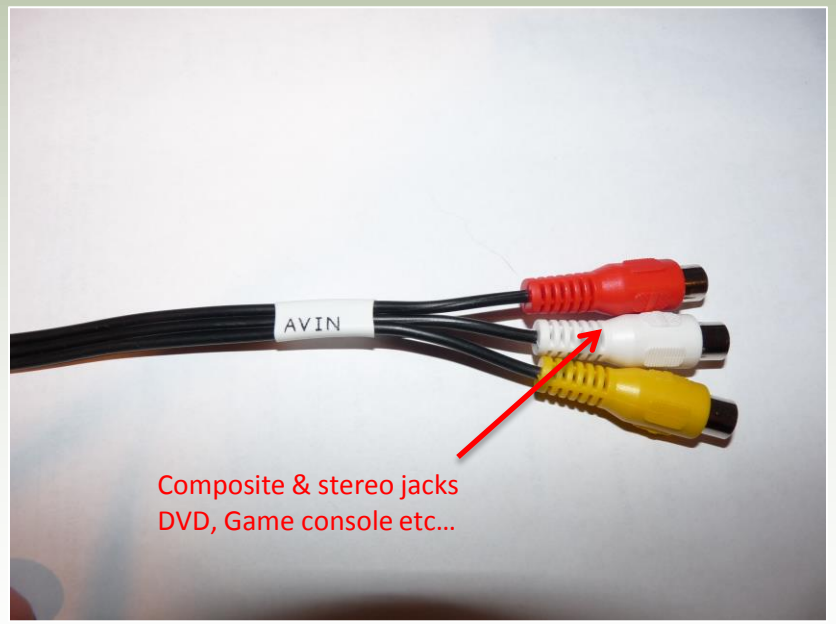
Aux Cable connection – Main I/O 1

AV In connection – Main I/O 1 (Optional)



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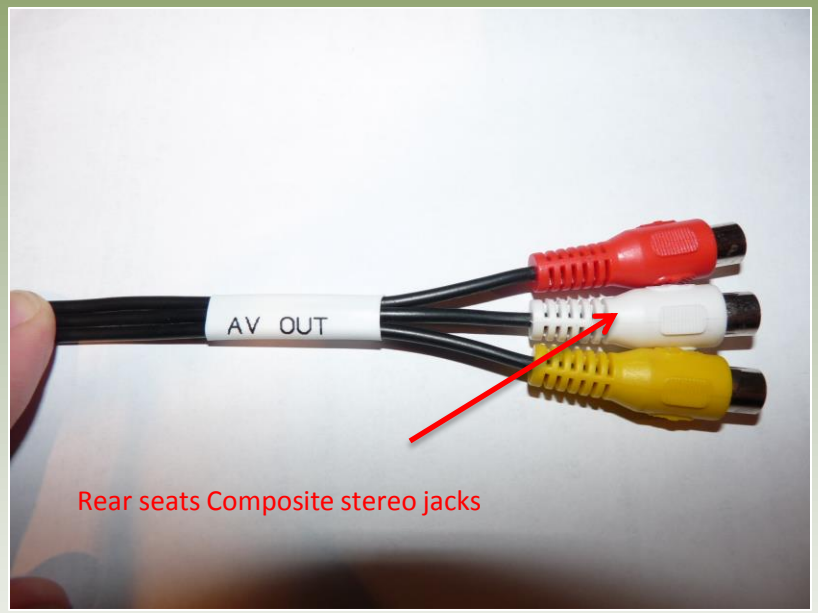

AV Out Connection –
Main I/O 2 (Optional)

IR Sensor and Remote –
Main I/O 2 (Optional)

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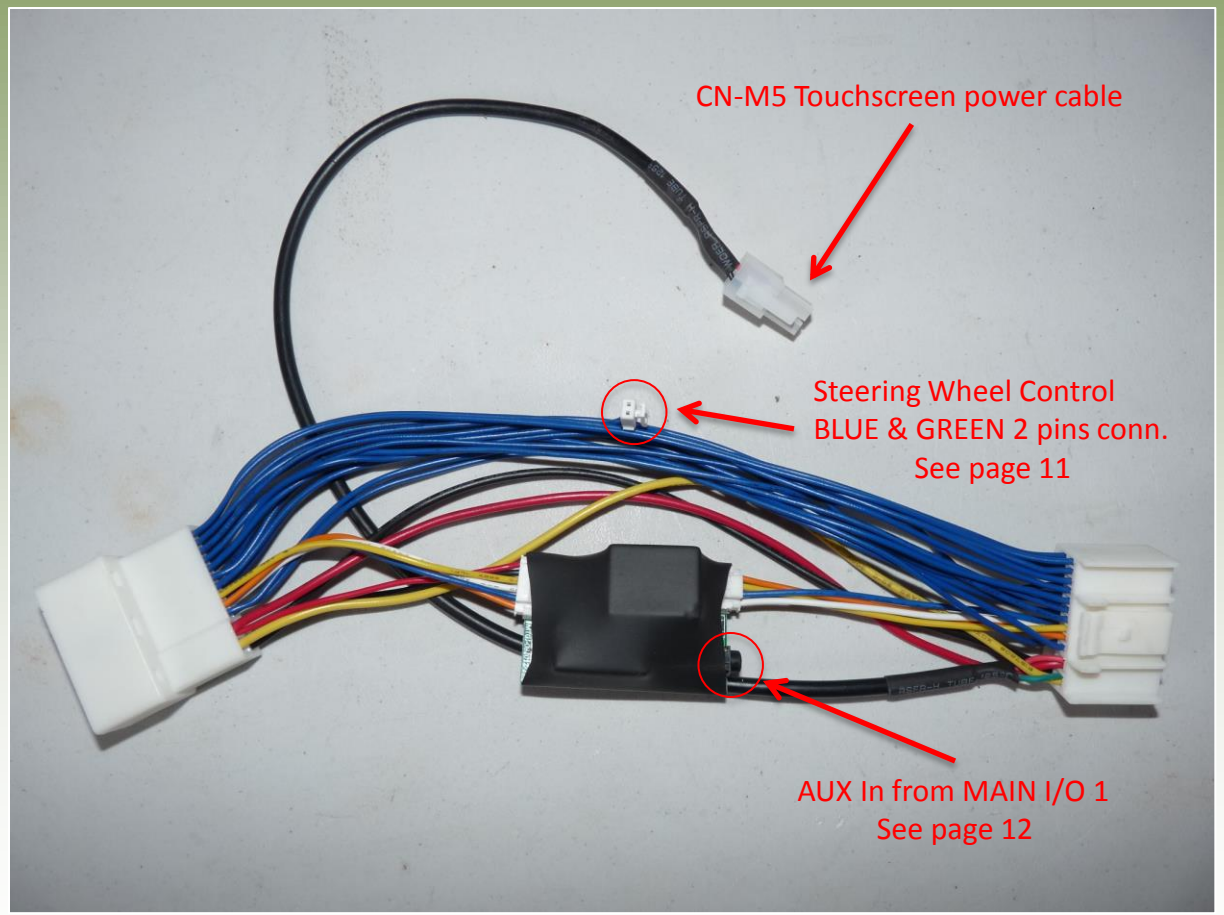

This is the Compass-NAV Audio Patch cord. This adapter goes in between the 24 pins radio connector and the car harness.

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Section 4
Touchscreen Connection identification

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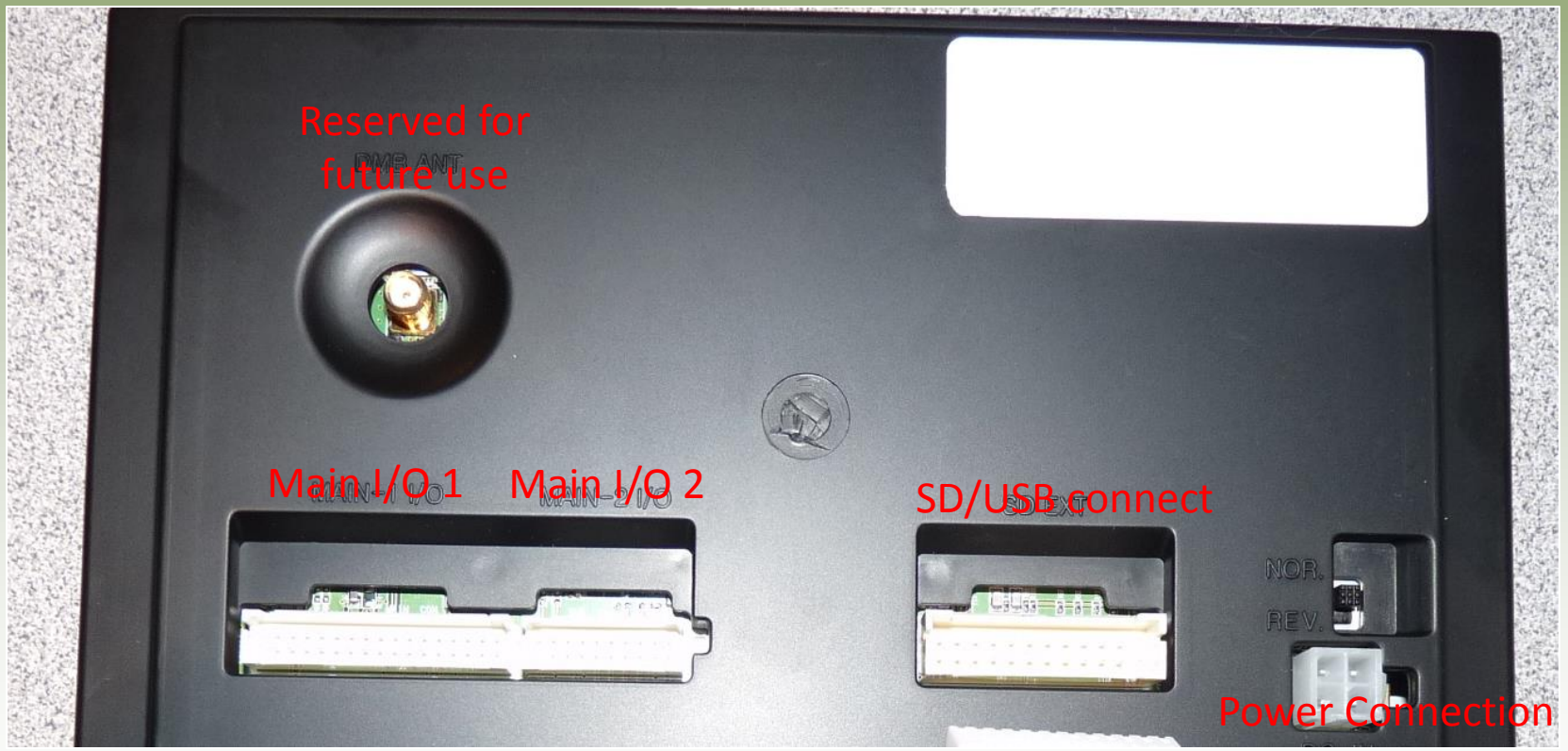

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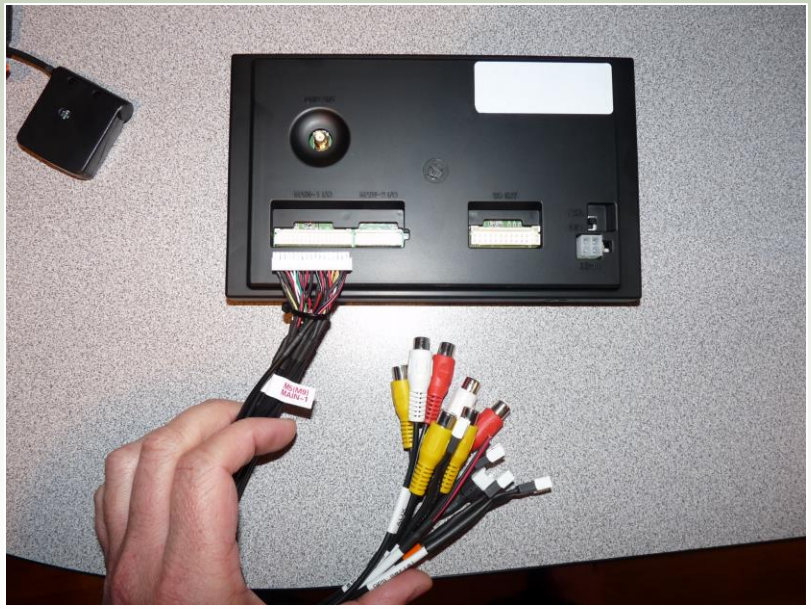
SD/USB connection box to SD EXT connection

Main I/O Connection #1



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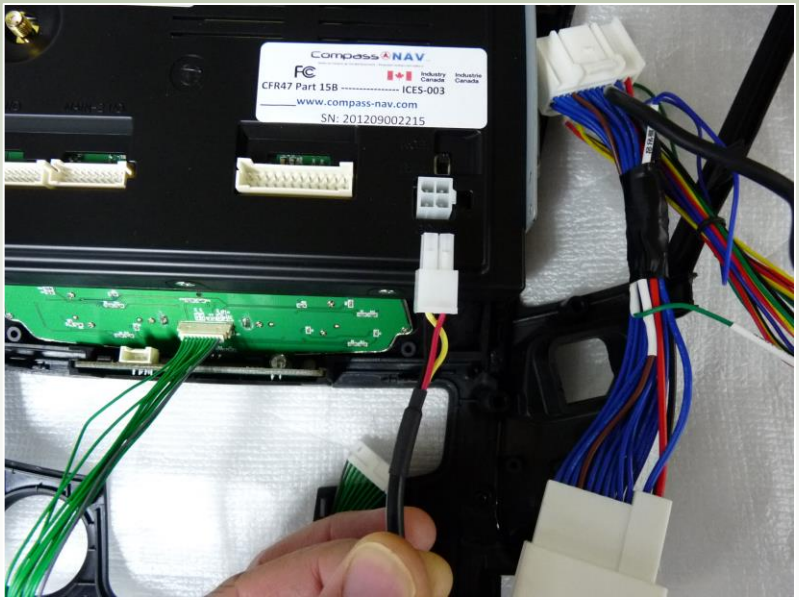
CN-M5 Main Power Connection for Touchscreen

Main I/O Connection #2

Not required to plug if:

- No Remote control
- No Rear Seat Screen
- No Traffic Tuner



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Section 5
Trip Module Connections and ports identity

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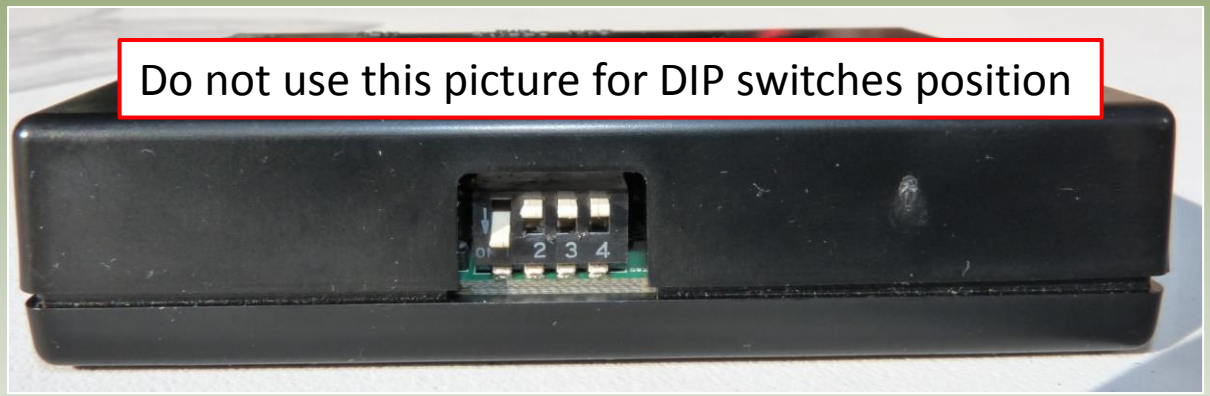
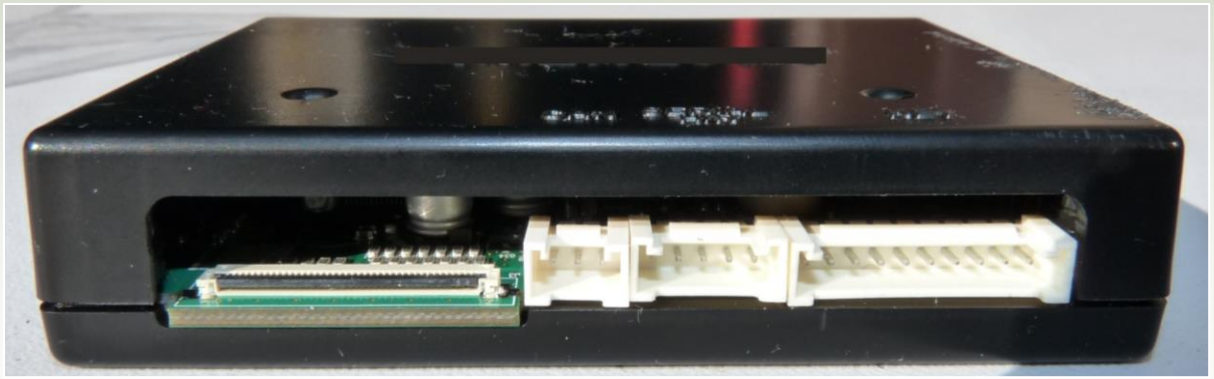
Applies ONLY to Elantra 2011- mid-2012 (single radio knob)



TRIP Module Dip Switch location – **Switches are factory preset** but **please refer to the Appendix 1 correct position.**



TRIP Module interface connections

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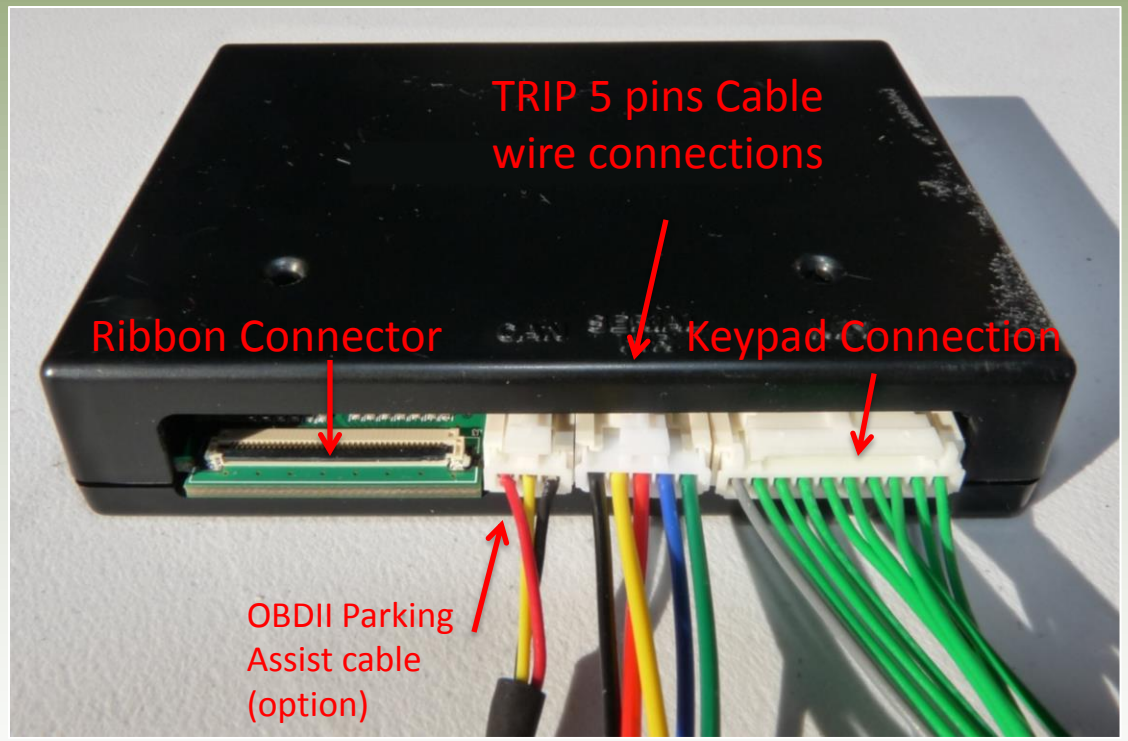
Trip Module Connections/Cable identification



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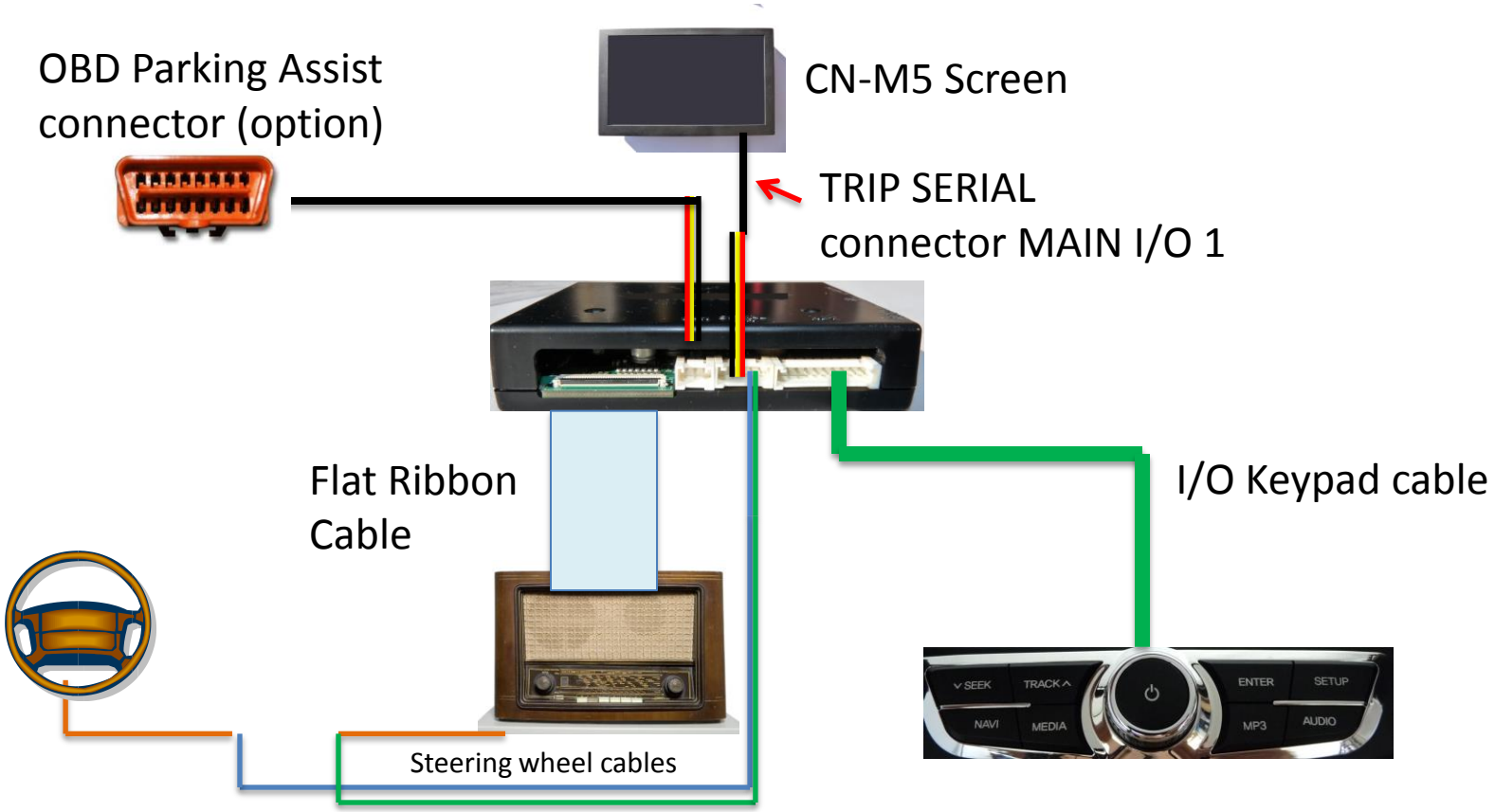
TRIP module schematic connections



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Section 6
Vehicle Preparation

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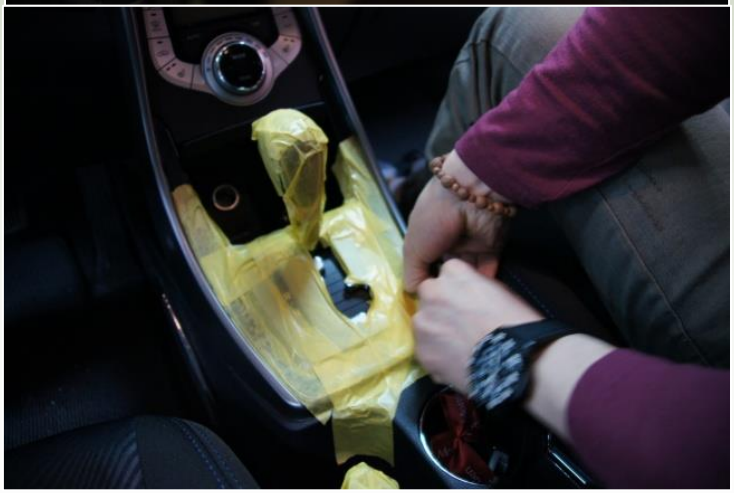

1. After protecting the area around the transmission (use masking tape) use the flat screw driver (that will not mark the vehicle plastic) to separate the side trim from the transmission housing. This trim is secured using white plastic retaining clips.

2. Carefully pry the molding off all the way up to the radio. Do not force it, just ease it and be cautious to avoid damage.

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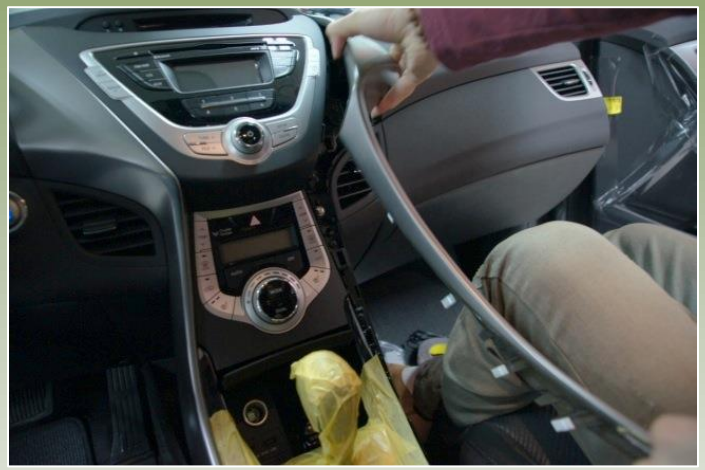

3.Continue removing the trim piece (notice the white plastic clips retaining the trim) until the piece is completely separated. Store these trim pieces carefully to avoid damage. Repeat the process for the other side.

4.Once both trim pieces are removed , the radio securing screws are exposed. Remove the screws indicated and store safely.

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5.Gently lift the black plastic piece that surrounds the radio to expose the silver mounting screws. This part houses the clock and has a connector at the top. Carefully unplug the connector before removing the part completely. **Carefully remove the connector the powers clock from rear of the black bezel**

6.After removal (and clock power disconnect), remove the retaining screws that secure the radio to the dashboard. Store the screws safely.

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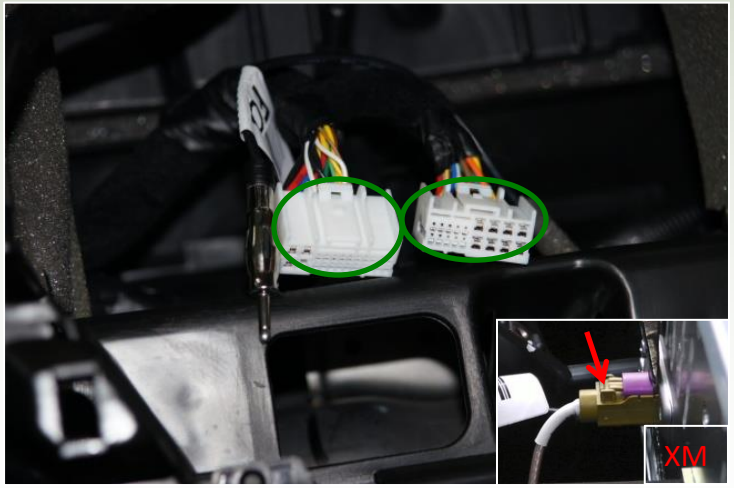
7. Gently lift up the radio unit to allow the 3 connectors on the rear (2 x multiway, 1 x XM antenna) to be disconnected. These are unplugged by pressing the tab on the top and pulling gently. Also disconnect the radio FM antenna (just carefully pull the cable out of the receptacle.)



8. Exposed connectors after radio removal. Notice the tab top on the connectors is pressed to remove the plug from the radio.

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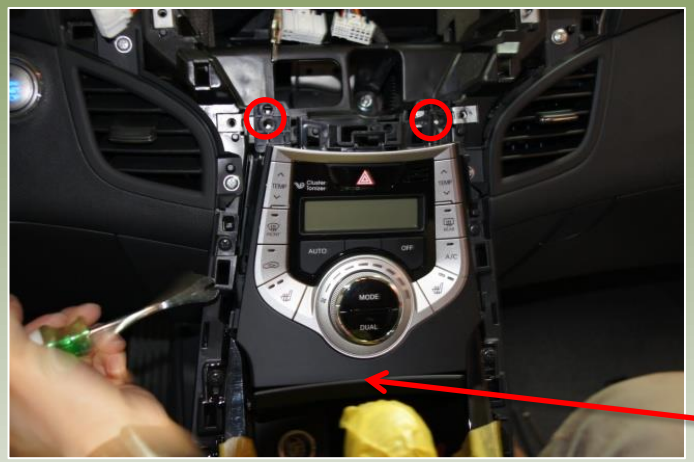
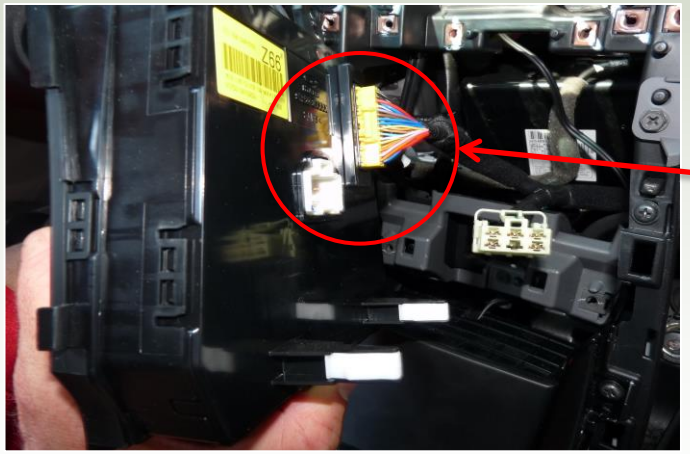


9. Remove the retaining screws for the temperature controls module. Using your hand, grab the bottom of the A/C control module and carefully pull the unit forward enough to disconnect the cables on the rear of the panel.

Insert your hand, fingers up, above the cubby door and reach the back of the A/C as shown. Pull forward to unsnap it.



10. All connectors are then disconnected from the temperature control module by pressing the tab and pulling the connectors.

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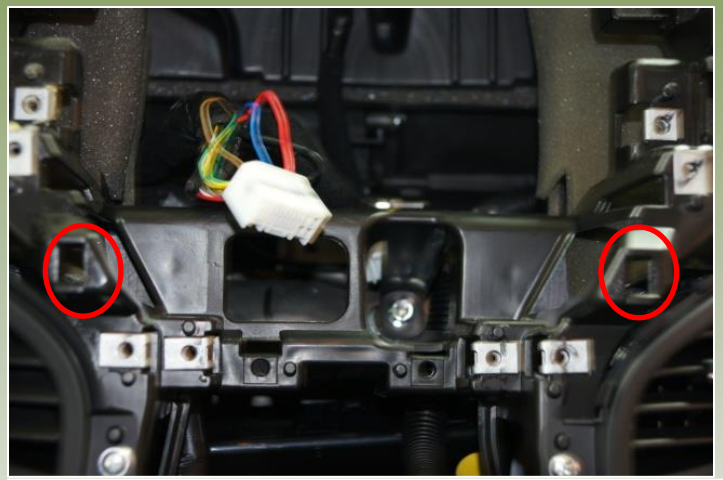

11. The red circles identify the areas that need to be trimmed to accommodate the new touchscreen and bezel mount. Notice the “triangle” pieces of the securing socket.

12. Using a small saw (or any appropriate tool) trim the area marked to reflect the next step. This is necessary to allow the new panel to be installed correctly. **Clean the entire area with a vacuum to remove the plastic debris.**

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14. After removal of the excess plastic the dashboard should look similar to this. Notice the missing triangle of material.

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Section 7
Radio Preparation

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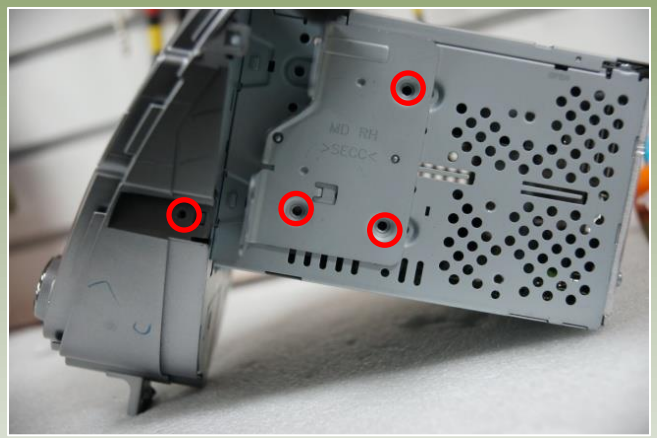

15. For radio preparation, removed the bracket and front panel retaining screws as shown. Repeat for the other side of the radio.

16. To detach the front panel completely from the radio, there are 6 retaining tabs that retain the radio panel in (2 on bottom, 2 on top and 1 either side) . GENTLY lift these up a little (DO NOT SNAP THEM OFF) and pry the radio fascia clear enough to allow access to the cables on the rear.

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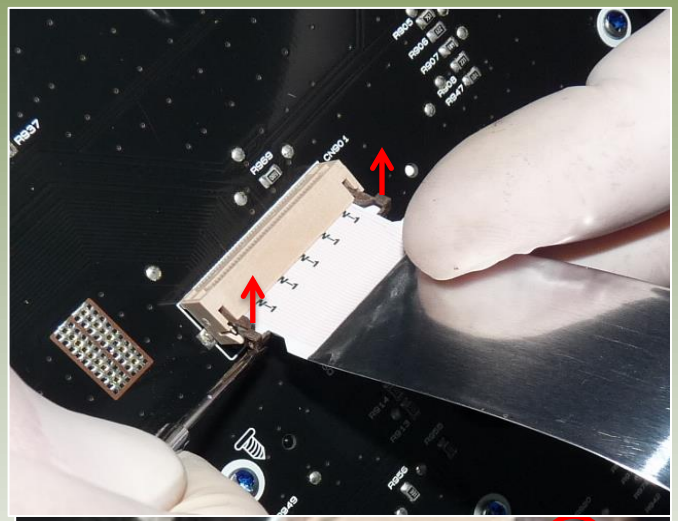
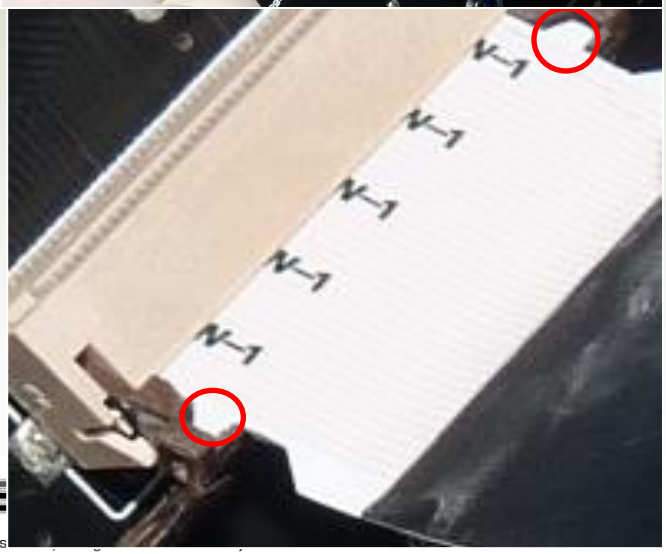


A little pressure is needed from a screwdriver to lift up the brown locking tab to allow the connector to freely be disconnected. **Be gentle to avoid damaging the brown locking tab**



Notice the red circles. The cable needs to be disengaged from the brown locking tab, to free it from the beige connector. Separate the white end from the lock by lifting gently. DO NOT PULL HARD

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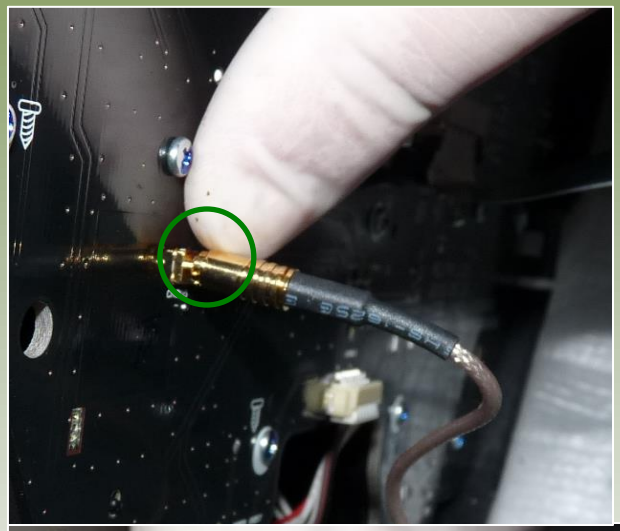

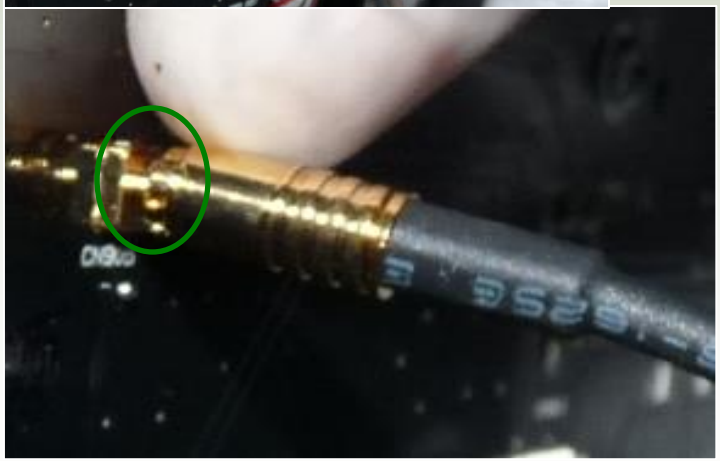

ELANTRA 2011 – MID 2013 ONLY
(1 Knob radio version)

Bluetooth antenna is two handed process. There is a locking ring very close to the PCB (Printed Circuit Board) that needs to be disengaged (pulled up slightly) before pulling cable off the PCB. The cable and connector are very fragile.

Gently remove the Bluetooth antenna cable from the circuit board to allow complete removal.

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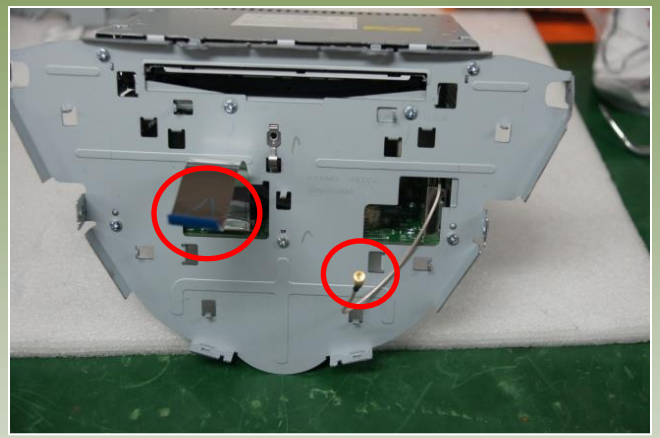
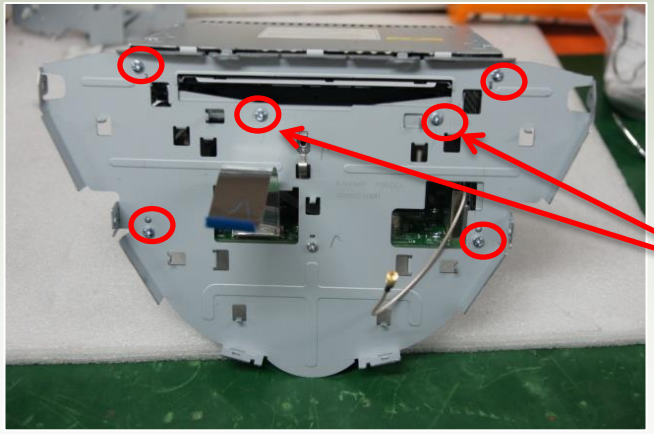


After carefully disconnecting the DELICATE ribbon cable from the display panel and disconnecting the Bluetooth antenna the front of the main radio is shown. **(Bluetooth cable is only for the 1 knob radio version; pre mid-2013)**



The front plate needs to be removed from the radio to allow connection of the touchscreen. Remove the retaining screws indicated and save for later use. **Reserve separately the two screws holding the CD player tray for later use.**

Hyundai Elantra 2011-up CN-M5 Installation manual

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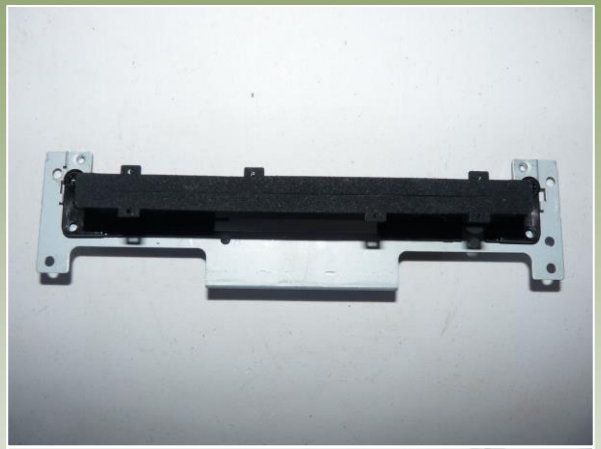

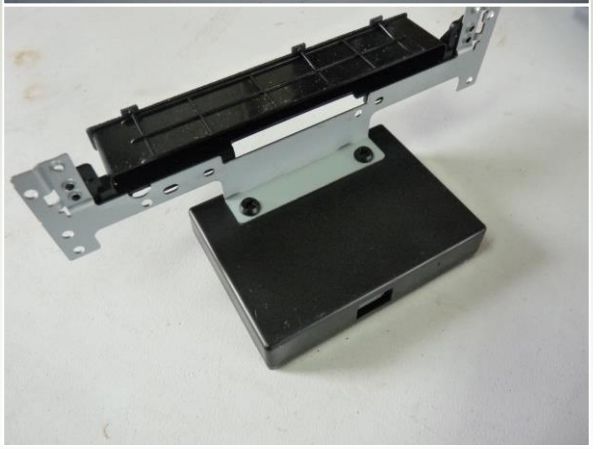

Locate the replacement front plate in the installation kit, install TRIP unit into frame

Install the TRIP interface module into the plate in the orientation shown. (White connector exposed on front of plate oriented away form CD tray, dip switches at rear)

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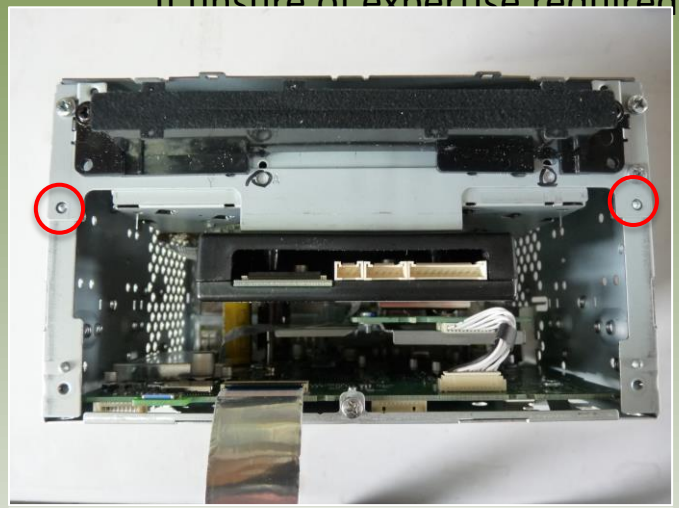
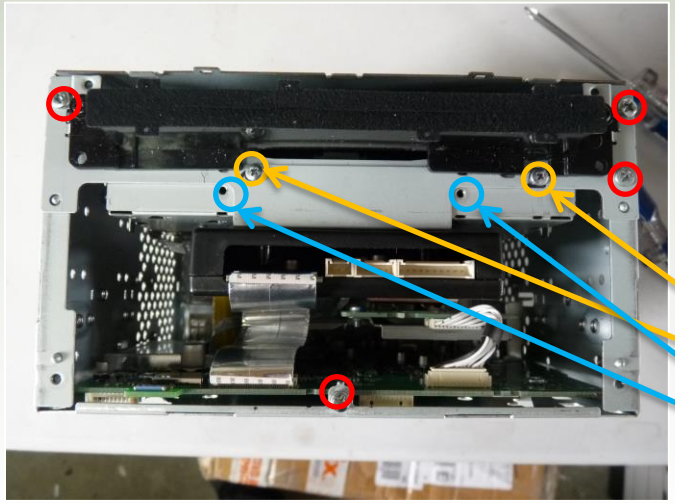


Gently feed the radio ribbon cable and Bluetooth antenna (if applicable) through the plate and locate the plate into the front of the radio with the locators (shown). Be cautious to avoid causing any internal damage as the TRIP interface is pushed into the radio unit. CAUTION Sometimes the TRIP might snag a little on connectors, carefully maneuver into position.



After carefully installing the TRIP into the Radio unit, the completed cable routing should look like this. Install the bracket retaining screws in the locations shown. The bottom screw doesn't need to be tighten now, it will be used to attach the backup camera ground (if purchased).

Screw the 2 screws reserved previously at these locations.

Elantra 2011-2012

Elantra 2013

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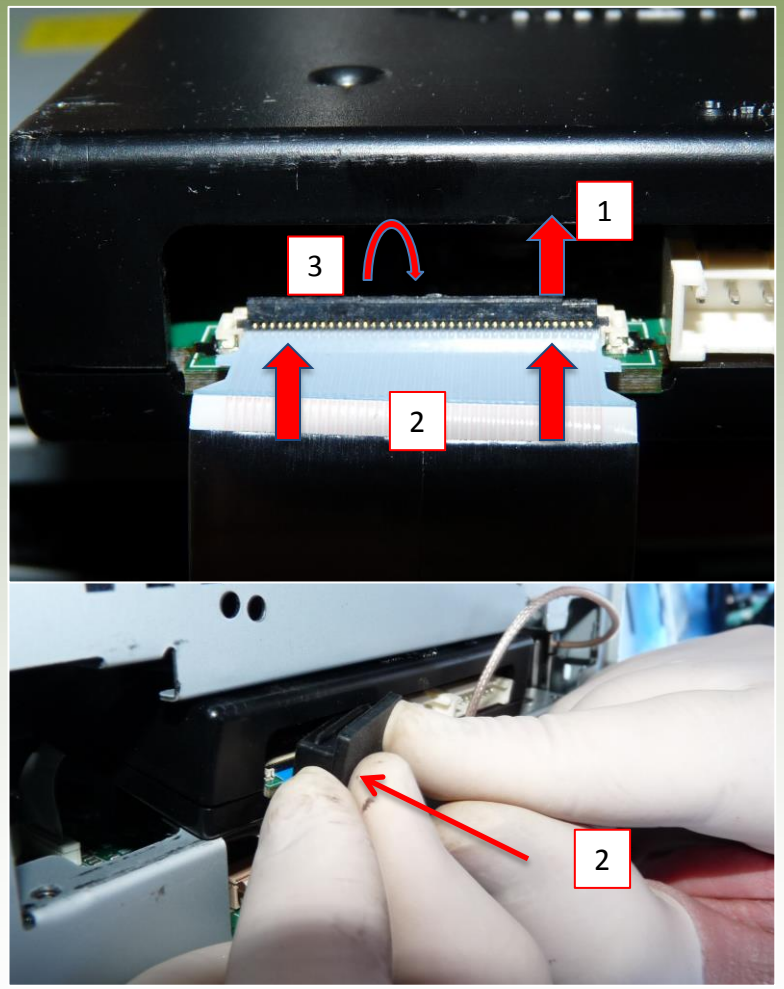

1- The **black** locking tab in the TRIP module is carefully lifted to allow the ribbon cable to be installed into the TRIP module.

2- The flat ribbon contacts (silver) need to be facing down (to make contact) and the blue needs to face up. The ribbon must be CAREFULLY but firmly pushed into the TRIP connector, ensuring it is parallel and has no bends or tears.

3- Then fold down gently the locking tab.

4- Then carefully install the rubber retainer, inserting the bottom piece first into place to ensure the locking tab and therefore ribbon cable does not disengage. Caution: **Make sure to insert the bottom of the rubber block first otherwise the locking tab may fold back and brake. If the locking tab is broken; stop the installation immediately and contact support.**

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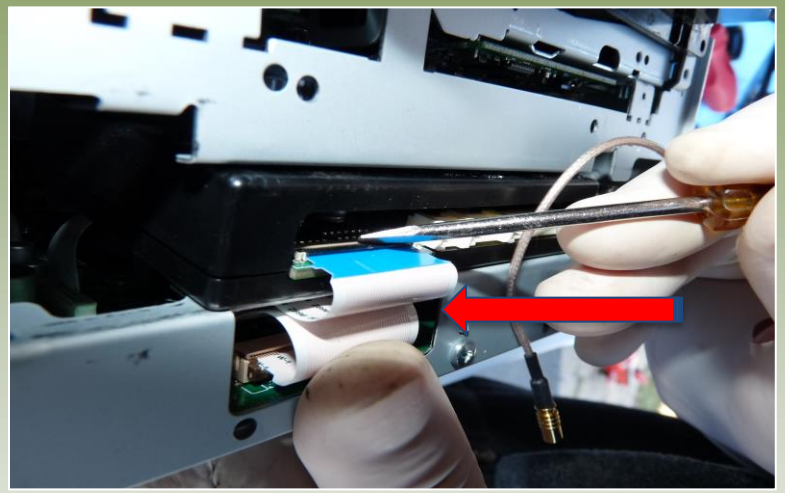
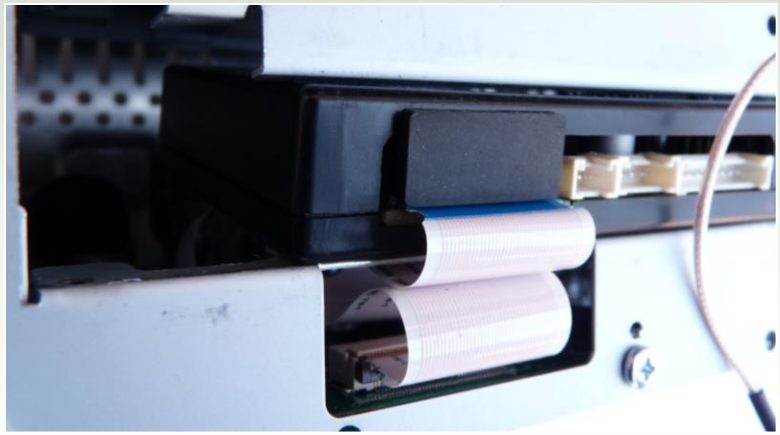


The protruding curve of the ribbon cable must be CAREFULLY eased back into the radio unit (under the TRIP module), use just enough pressure to push into the radio.



Completed TRIP module ribbon cable installation.

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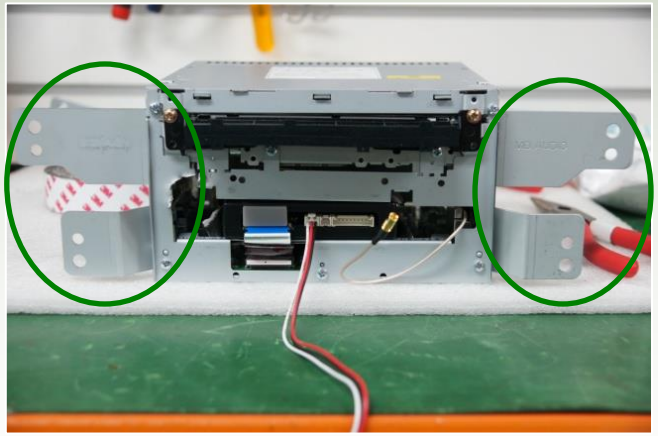

Attach the dash mounting brackets to the side of the radio using the three mounting points. Check the alignment dimples (GREEN circles) that aid in correct placement of the brackets. These are supplied in the installation kit. Repeat for the other side of the radio.

Note – The brackets are not the same, ensure the bracket installation matches the images as depicted by the green circles.

Hyundai Elantra 2011-up CN-M5 Installation manual

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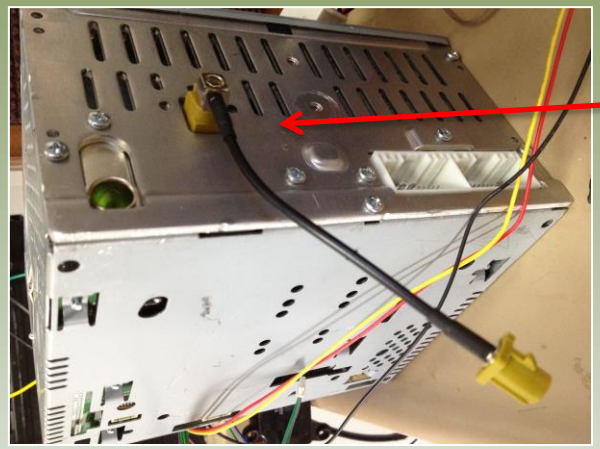
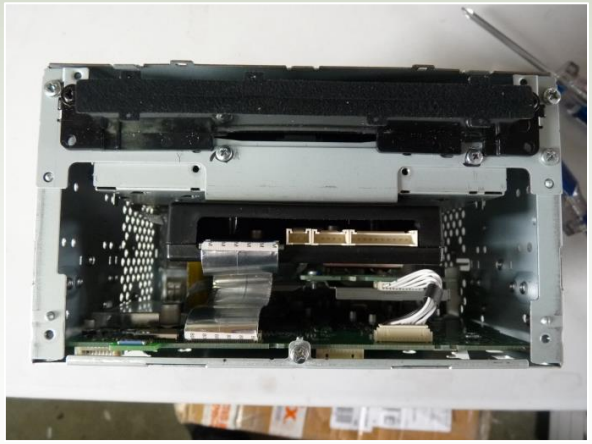


Attach the XM radio antenna adapter to the radio as shown



You have successfully retrofitted your factory radio!

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Section 8
Display Installation into Fascia

(If the screen has been pre installed into the fascia trim, please skip this section)

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Prepare the display for mounting into the new supplied fascia (if this was not completed already). Snug the screws up but do not tighten to allow for display adjustment once installed into fascia.

Install the display unit into the fascia. Take time to ensure that the alignment is correct by viewing the outside. Look to ensure the display is square and level. Tighten the fascia mounting screws to fix the display in that position.

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Apply LIGHT pressure to the back of the display to reduce any gaps between fascia and the display and then tighten the side screws. Check alignment and make minor adjustments as necessary.
The screen is preassembled from factory

Install Bluetooth antenna to the side of the display using 3M double sided tape.

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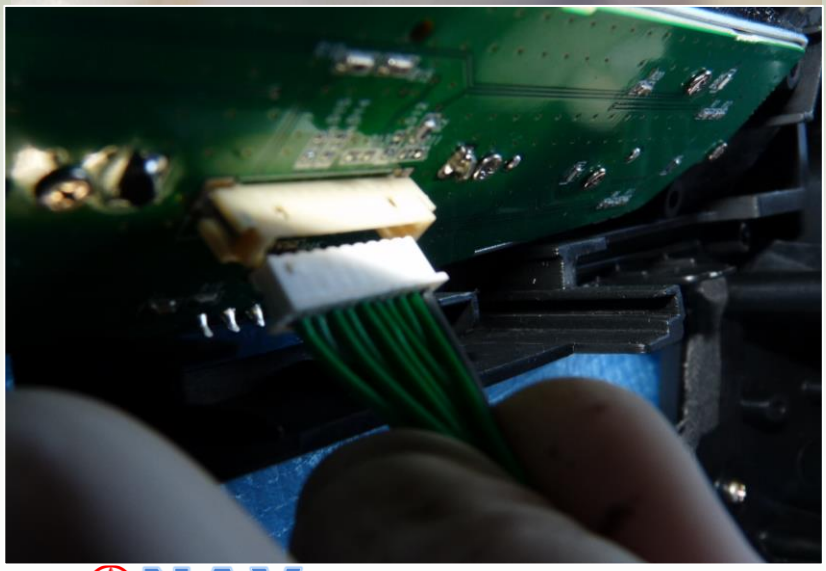
Front of keypad



On rear of keypad install the control cable for connection to TRIP module.

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Section 9
Fascia Trim Preparation

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Remove the existing factory clock module from the original fascia (undo the 2 screws) and relocate it to the new replacement fascia.

Transfer the 4 white (or green) plastic clips from the old trim to the new trim.

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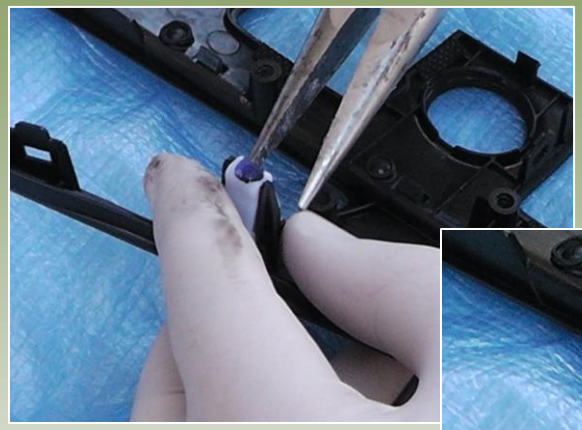
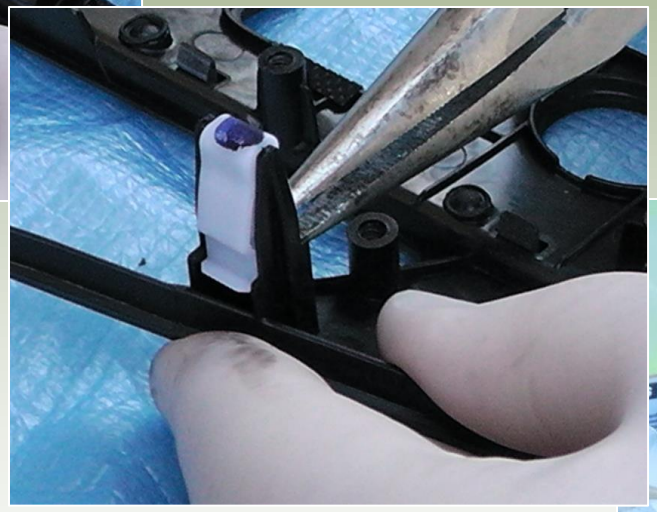
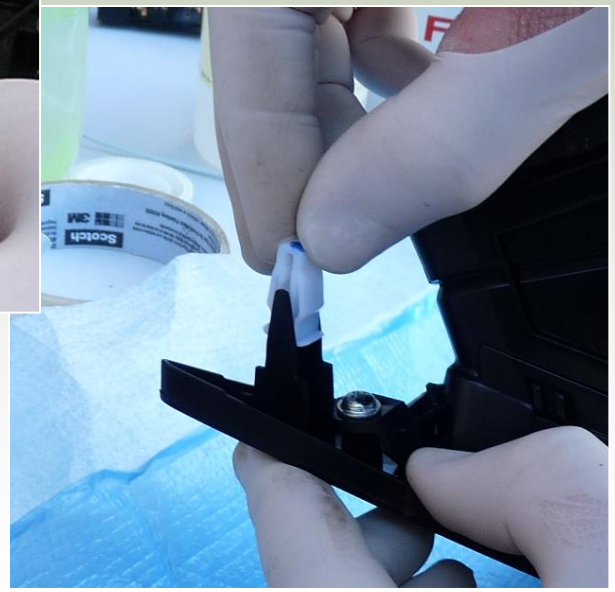




Transfer the 4 white (or green) plastic clips from the old trim to the new trim. Pull side of clip gently and pull up. Install in new fascia.



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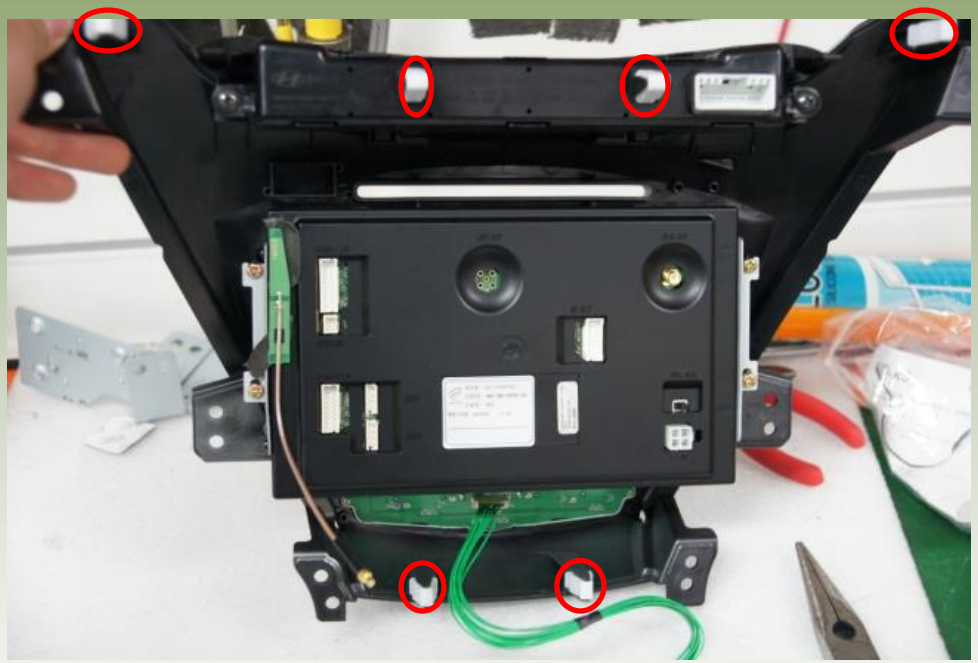

Touchscreen panel installed into replacement fascia. Recheck all screws, alignments and connections.

Ensure that white retainer clips are relocated from old fascia panel to new unit for installation.

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Section 12
Lower Console Preparation

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Remove the 2 screws holding the lower console in place as shown and reserve.

Unclip the lower console by pulling forward gently. No need to remove the lower console completely, just hold it in place as shown.

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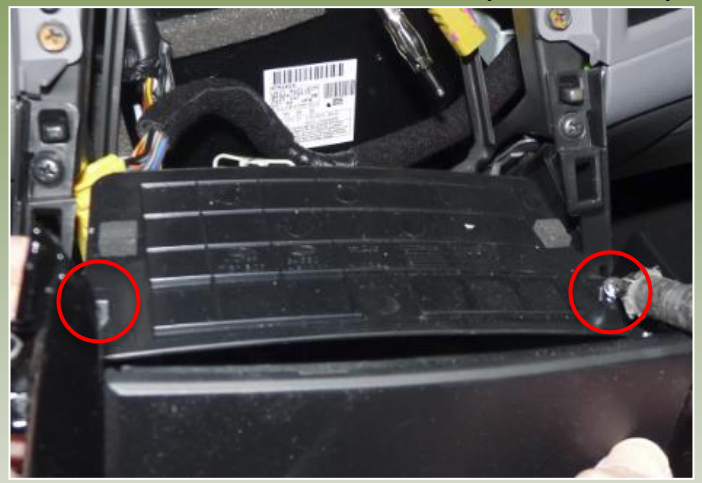

Remove the 2 silver screws holding the top cover of the cubby as shown and reserve.
Unsnap the top cover by pulling gently upwards from the back of the cubby. (see the 3 holding clips at the back of the top cubby.

Cut out a rectangle opening exactly as shown and deburr.

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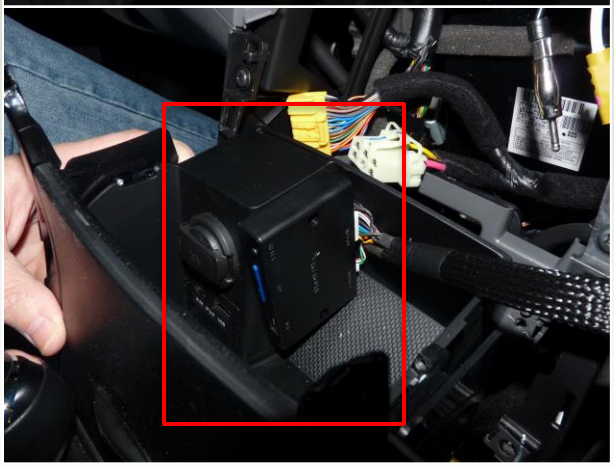
Apply 2 strips of double sided tape at the back of the external media box as shown.



Affix the External Media Box on the side of the power outlet wall as shown.

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Route the External Media Box cable thru the rectangle opening as shown. Then re-install the cubby top cover in reverse order. (snap at the back then screw the 2 silver screws)

Route the External Media box cable to the head unit by inserting the cable connector first thru the dash opening as shown.

Snap in place the whole console and screw in place using the 2 screws previously reserved. Re-Install the A/C control module; secure with the 2 screws reserved previously ensuring connectors are installed.

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Section 11
Electrical/Wiring Connections

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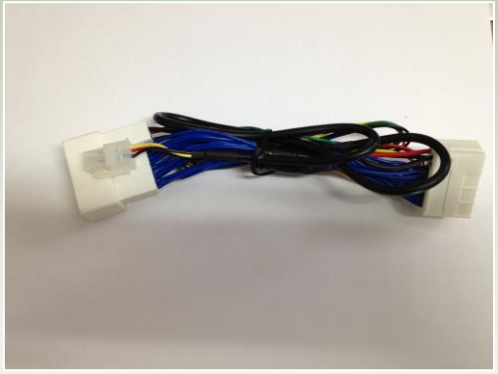
In the following section we will:

- Prepare the radio patch cord and attach to the car & radio connectors.
- Install the mini speaker.
- Video Tutorial about this section:
- https://dl.dropboxusercontent.com/u/70065767/Manuals/Audio%20Patch%20Cord%20Assy.m2ts

Aux cable

TRIP Serial cable

Audio Patch Cord



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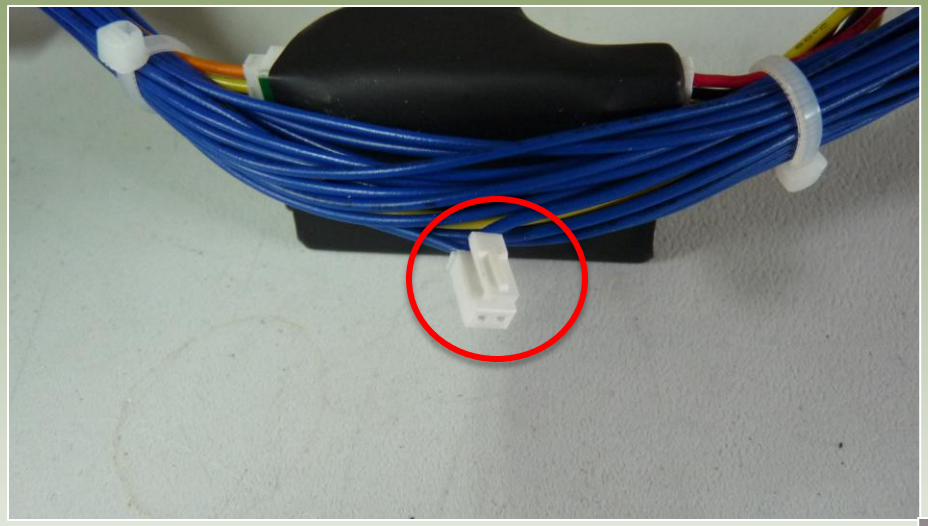
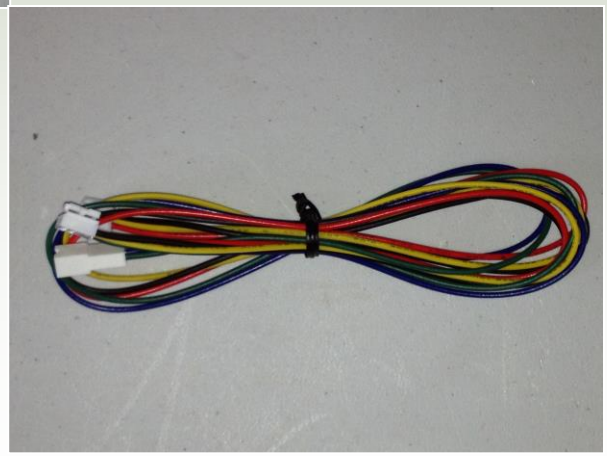


Attach the TRIP Serial cable 2 Pin connector to this connector to the Audio Patch cord as shown.

TRIP Serial cable



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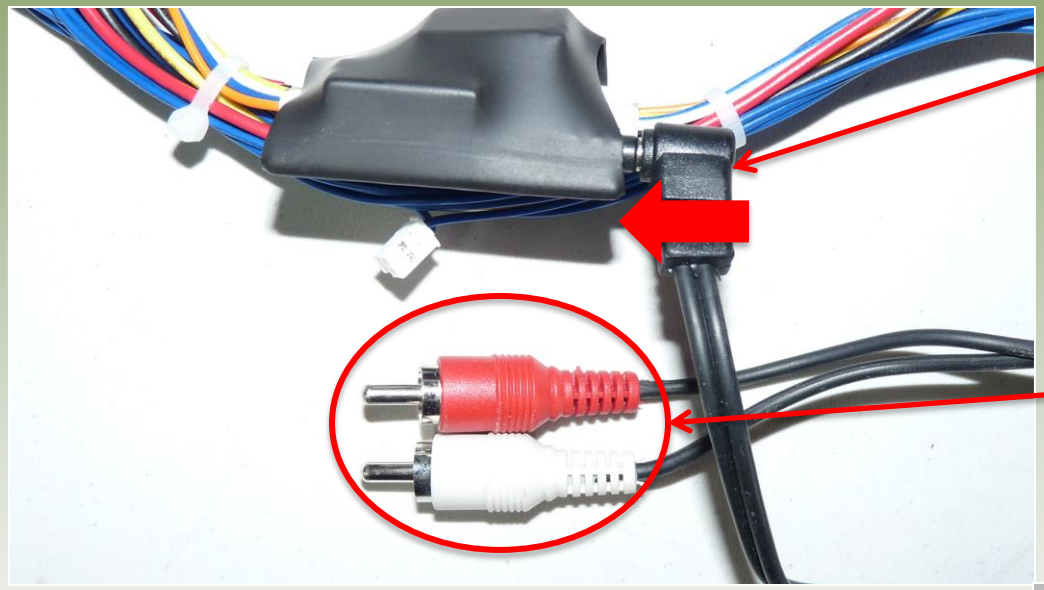

Attach the AUX cable male jack into the female of the Aux switcher board as shown. Secure in place with Electrical tape.

Reserve the White and RED RCA jack to be connected into the AUX cable from the MAIN I/O 1

Aux cable

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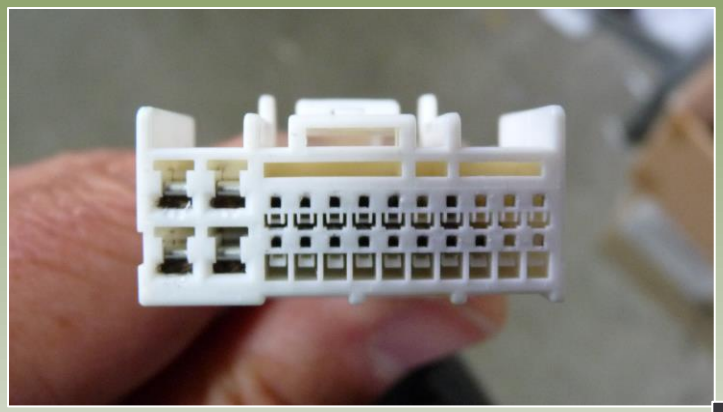
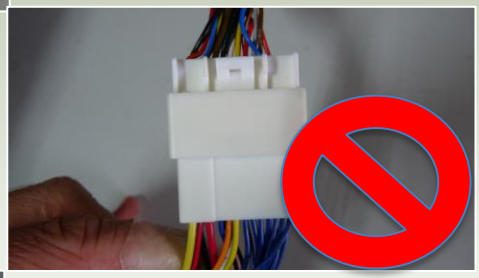
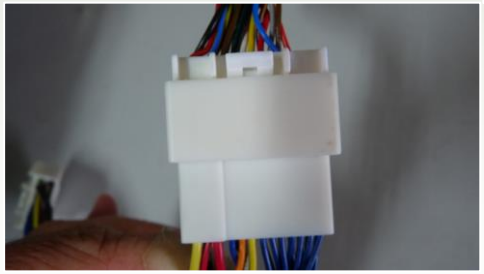


Connect the Audio Patch cord to the car matching connector as shown.



Connectors improperly seated.



Connectors properly seated. You should hear a **CLICK.**

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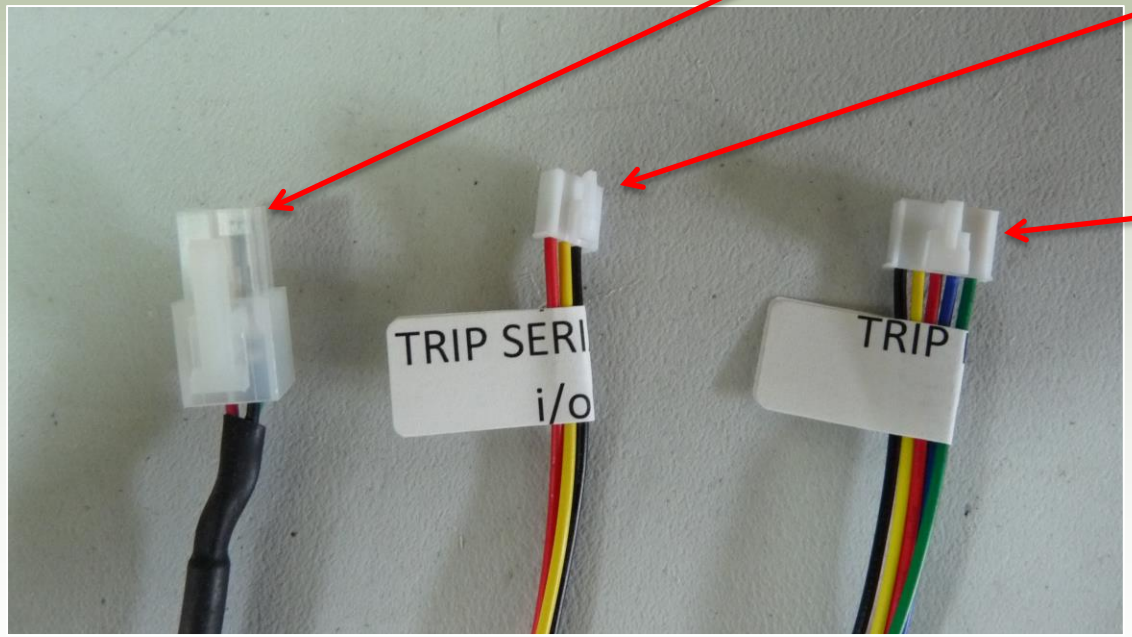

Reserve the CN-M5 4 pins square connector for the final assembly.

Attach the TRIP SERIAL to the MAIN I/O 1 TRIP SERIAL. (Ref: P:11)

Reserve the TRIP MOD cable for the final assembly. It will be plugged in front of the trip module (Ref: P:11)

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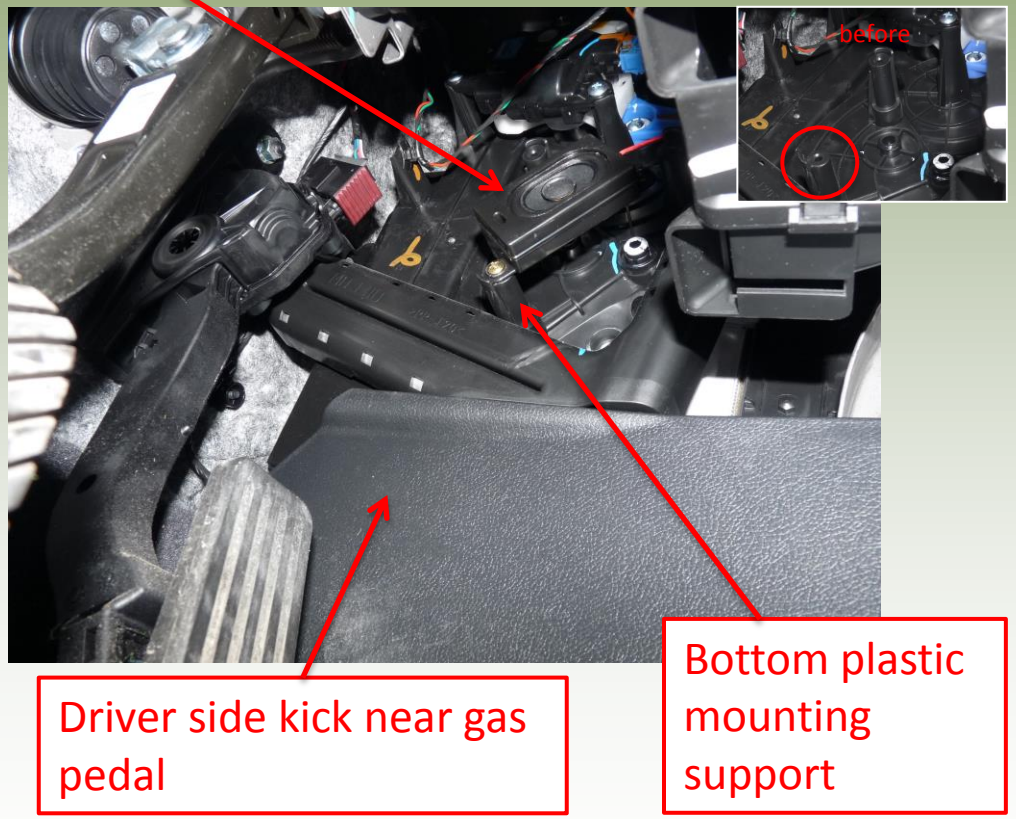
Mini speaker installation



The recommended placement of the mini-speaker is located on the driver side. Follow up the side kick near the gas pedal, locate the plastic lowest plastic support and install the mini-speaker as shown with the provided screw. The speaker is very light and require only one screw. Once completed, bring the wire to the head unit for final install.

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Section 12
Installation into Vehicle

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Location of double sided tape onto bottom of GPS antenna. Ensure GPS logo is still visible on top side.

Using 3M tape attach the GPS antenna to the top of the radio unit. Store the excess cable underneath the radio unit once installed.

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IMPORTANT

Before proceeding to the final installation if you have purchased the following options, please proceed to their installation before completing the final assembly.

- Backup Camera — Appendix 2 page 75
- Parking Assist System — Appendix 3 page 78
- RDS Traffic Tuner — Appendix 4 page 81

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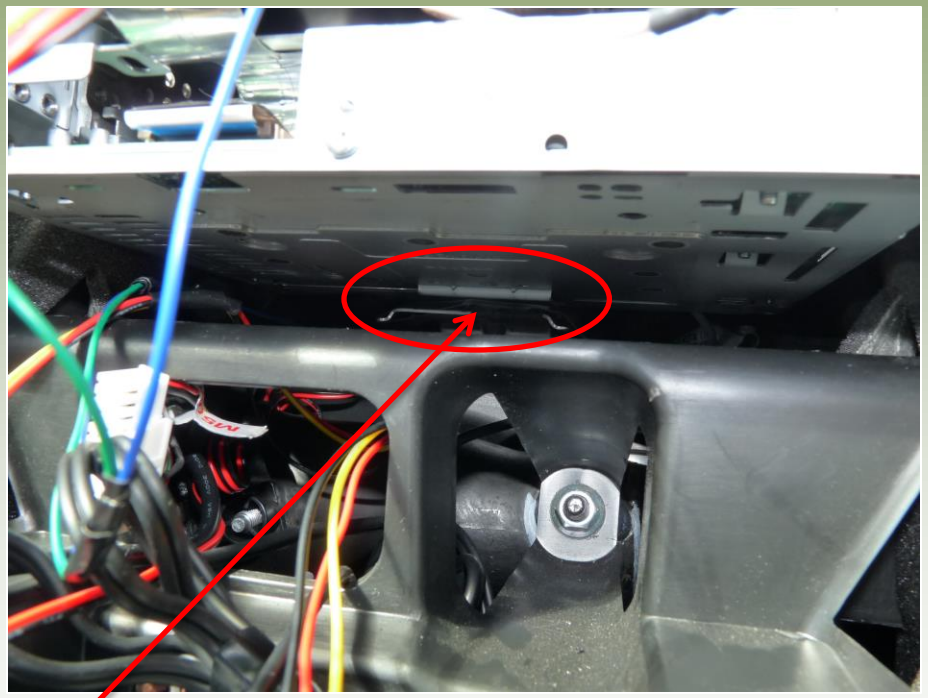

Anti vibration tape placement

After ensure all cables are correctly brought through to area beneath radio, attach:

- Radio antenna
- XM antenna
- GND cable,
- Multi-way connectors

And install radio in dashboard. If the radio does not fit well in place, make sure there is no unnecessary cables behind the radio and ensure they are well placed under it**. The radio is located a little higher than before and so will not engage in its location bracket.** To avoid vibration use electrical tape to cushion unit. Affix using the screws removed earlier.

Compass NAV inc.
Systèmes intégrés de navi-divertissement / Integrated navitainment systems

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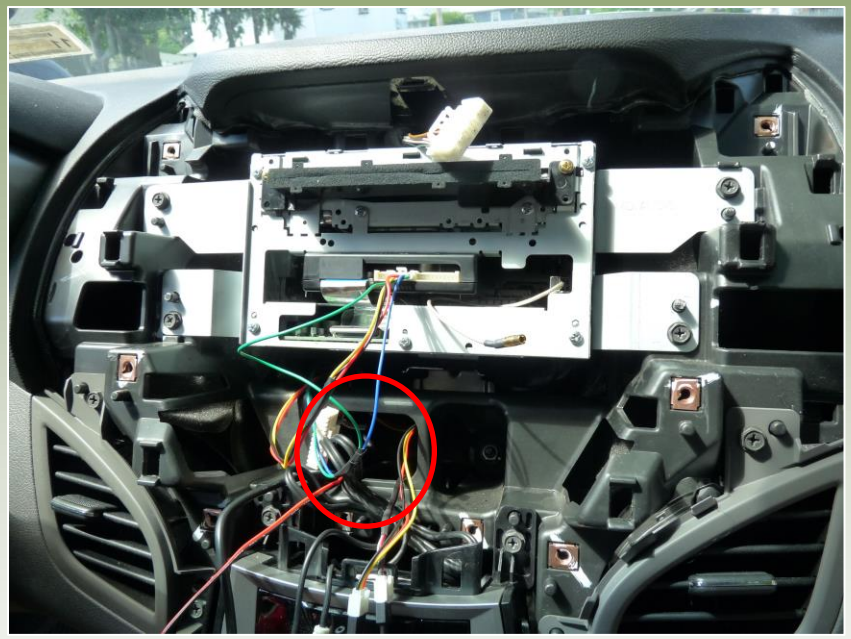

Once located fish the required cables through the square opening. All other cables should be stored under the unit and not brought through the hole.

Required Cables exiting the opening:

CN-M5 power cable
CN-M5 Main I/O 1
CN-M5 Main I/O 2 (if needed)
External media box

Hyundai Elantra 2011-up CN-M5 Installation manual

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Prior the assembly of the trim to the car, please make sure you have at the following connected properly .

- GPS Antenna to GPS Serial of MAIN I/O 1
- TRIP cable to TRIP Serial of MAIN I/O 1
- Mini Speaker to SPK of MAIN I/O 1
- AUX cable to AUX of MAIN I/O 1

- OPTIONS
- CAMERA to CAMERA of MAIN I/O 1
- Audio Video Extension cord to AVIN of MAIN I/O 1 for external multimedia player
- Audio Video Extension cord to AVOUT of MAIN I/O 2 for read seat screen and sound
- IR Receiver for Infrared remote of MAIN I/O 2
- TMC cable to TMC Traffic receiver of MAIN I/O 2

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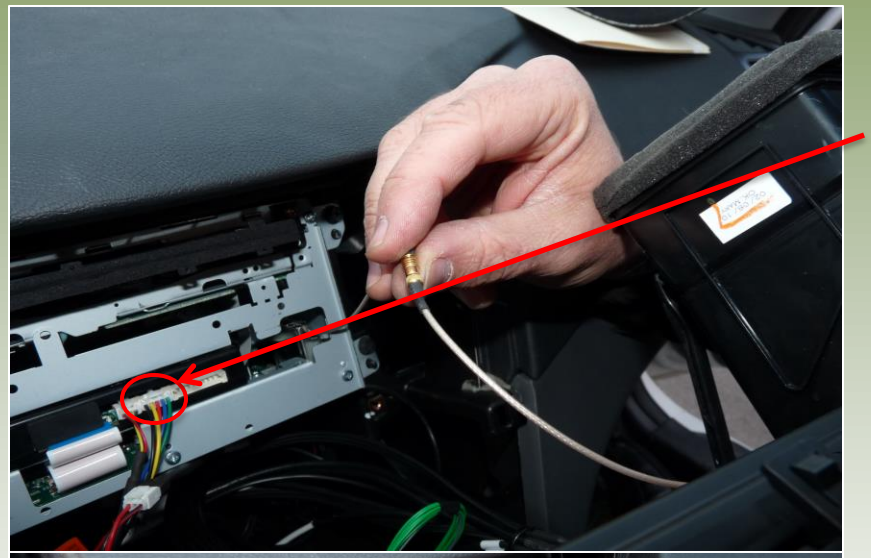

Prior handling the fascia, connect the TRIP cable to the TRIP module as indicated. (5 wires connector) and Parking Assist System cable if purchased.

Getting ready to attach the new fascia trim, connect:

- The Bluetooth antenna cable.
- Keypad green cable to the TRIP module.
- Main I/O 1
- Main I/O 2 (If needed)
- External Media Box
- Navigator device power.

Hyundai Elantra 2011-up CN-M5 Installation manual

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Connect the car harness for the clock and temperature module and place fascia carefully making sure you're not pinching or bending sharply any wires.

Align the plastic clips to their matching holes. Press firmly the trim surrounding to snap the clips. Make sure the CD slot is properly aligned with the trim slot and look for apparent gaps. Once completed, you can proceed with the final assembly. Screw in place the new trim (2) Put back the remaining trims.

Hyundai Elantra 2011-up CN-M5 Installation manual

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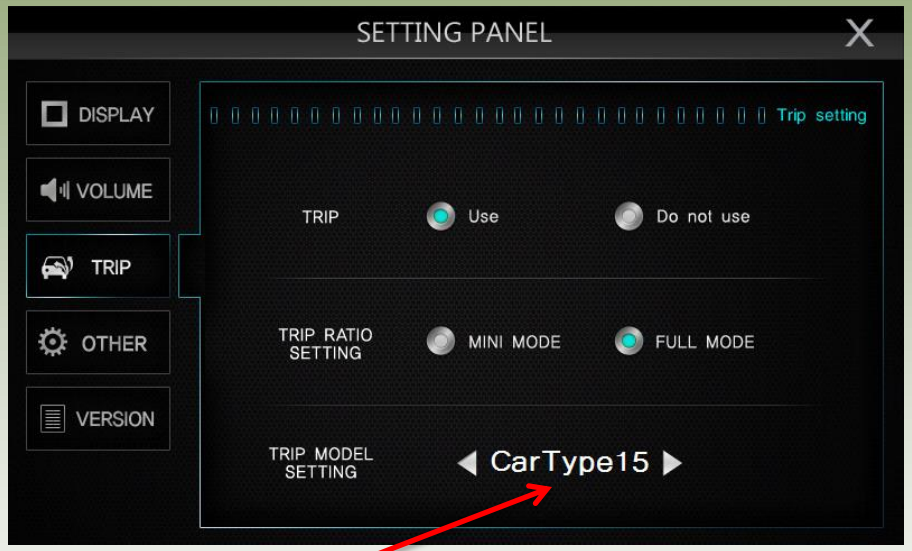
Reconnect the wires to the car battery and test run the Navigator.



Prior running the radio interface go into the device Settings / TRIP and make sure your **Car Type is:**

Car TYPE 15: for Elantra 2011 – Mid 2013 (Single knob type)

Car TYPE 26: for Elantra Mid-2013 + (2 knobs type)

Test all features as per User Manual.

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YOU DID IT!

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Appendix 1
TRIP Module DIP Switches

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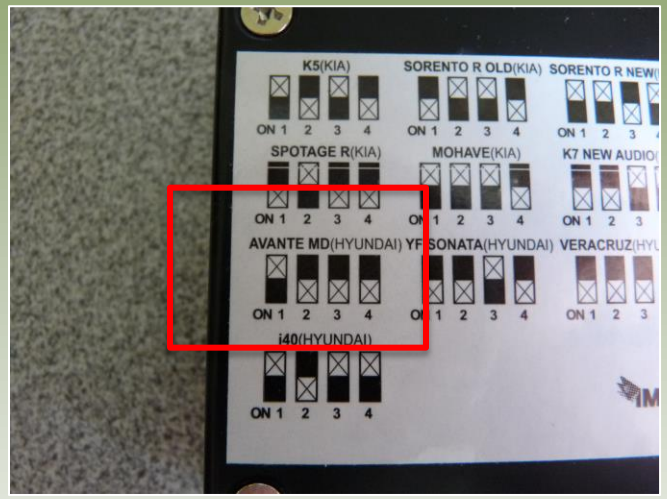
Appendix 1 : Trip module DIP switches



Please refer to the DIP switches selection guide located at the back of the TRIP module for proper operation.

IMPORTANT

DIP switches proper position are show by the black squares boxes NOT by the white crossed boxes.

Elantra DIP switches at their correct positions are show here.

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Appendix 2
Backup Camera Installation

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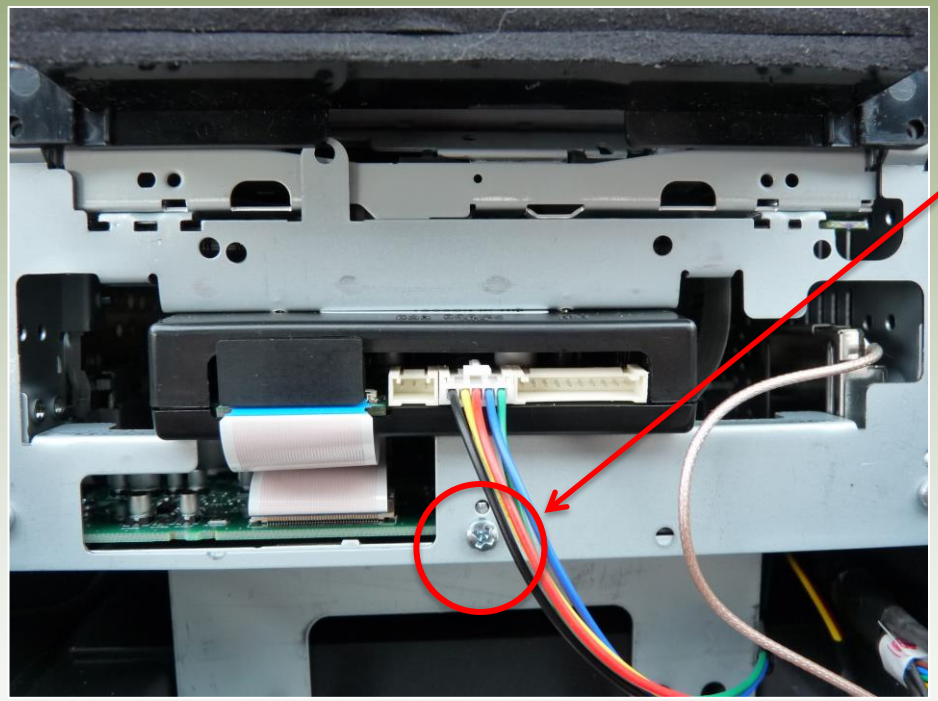
Appendix 2: Backup Camera install



Unscrew the bottom middle radio screw and attach the **BLACK** wire from the labeled MAIN I/O 1 "**REAR PWR**" to the front of the radio chassis as shown.

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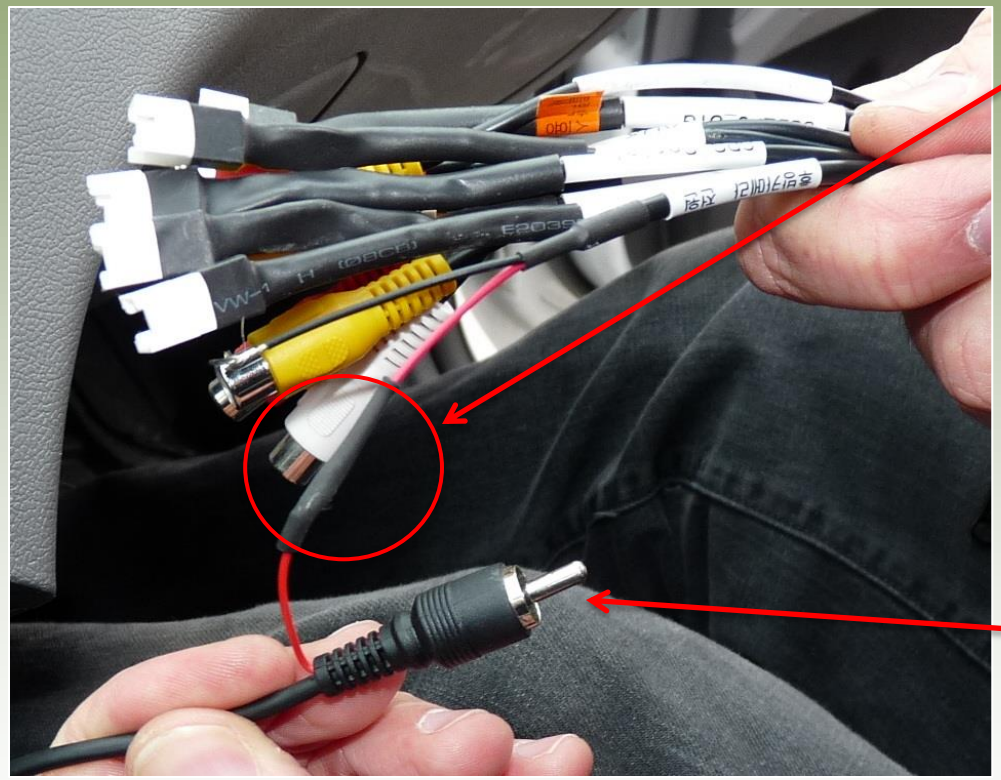

Attach the RED wire from MAIN I/O 1 "**REAR PWR**" to the backup camera RED wire.

Plug the back up camera RCA jack into the same Yellow Camera jack of MAIN 1/O 1

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Appendix 3
Parking Assist

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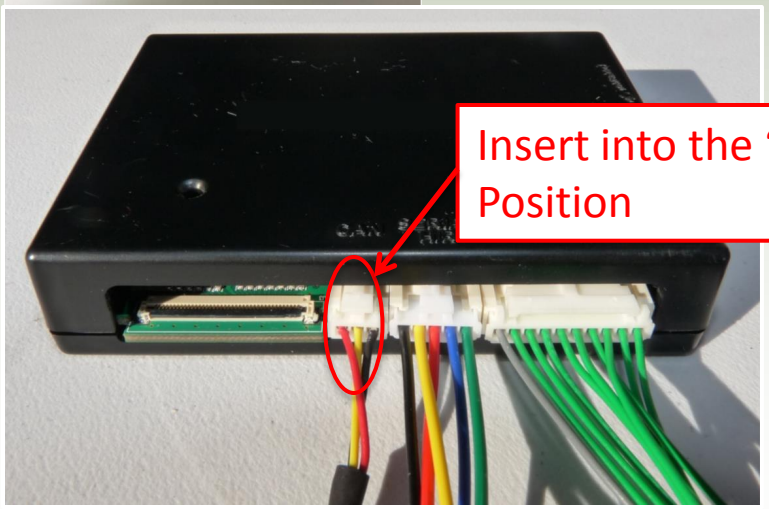
Appendix 3: Parking Assist System



Connection of the Parking Assist System is very simple.

First: Connect the 3 pin connector to the CAN position of the trip module as shown.

Second: Connect the OBD II adapter into the car OBD interface.
Once inserted, lock it in place by moving the yellow tab until you hear a “click”.

The OBD adapter will interfere with the fuse box panel and the car OBD interface needs to be relocated. See next page…

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Release the OBD interface by disengaging the latch and relocate lower to be accessed by service technicians.

Secure properly for driver's safety.

It is your responsibility to inform the service personnel of the new location of the OBD interface and how to disengage the parking assist adapter!!!!

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Appendix 4
RDS Traffic Tuner

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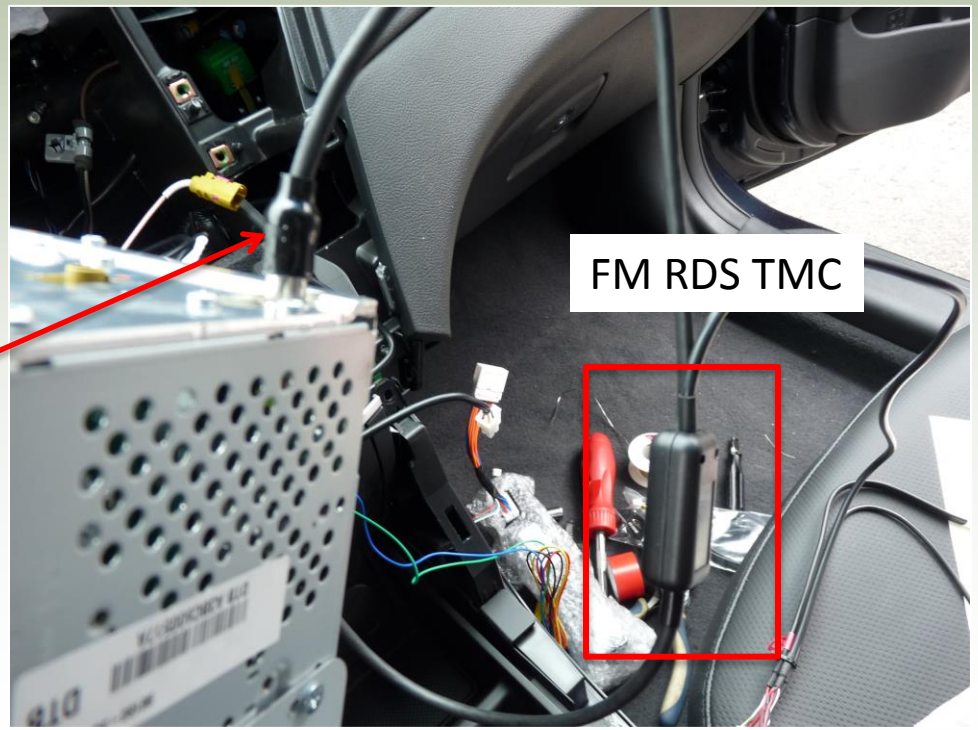
Connect the female TMC FM adapter to the car male.

Connect the male TMC FM adapter to the back of the radio. Reserve the white connector **MAIN I/O 2** for the final assembly.



Compass NAV inc.

Systèmes intégrés de navi-divertissement / Integrated navitainment systems

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Tips and tricks

To avoid over heating wire and connectors, it is recommended you use soldering acid Flux. This will greatly improve the quality of the soldering points. Before soldering, dip Into the acid flux paste the end of the soldering rod and apply a little flux to the wire section you wish to solder.

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END OF MANUAL